# SIEMENS

**Data sheet**                                                    **6AV2125-2AE23-0AX0**



SIMATIC HMI connection box Advanced for Mobile Panels, wall mounting, PROFINET and PROFIsafe, connection of safety relay, emergency stop circuit bridging, terminal detection, Integrated switch, MRP client, IRT

| General information | |
| --- | --- |
| Product type designation | Connection box |
| Product function | |
| ● Web-based management | Yes |
| **FH technology** | |
| Safety evaluation through direct wiring | |
| ● Reconnection without emergency stop circuit interruption | Yes |
| ● Reconnection with emergency stop circuit interruption | No |
| ● Monitoring the STOP button | Yes |
| ● Monitoring of emergency stop button | Yes |
| ● Monitoring of acknowledgement button | Yes |
| Safety evaluation via PROFIsafe | |
| ● Reconnection without emergency stop circuit interruption | Yes |
| ● Reconnection with emergency stop circuit interruption | No |
| ● Monitoring the STOP button | Yes |
| ● Monitoring of emergency stop button | Yes |
| ● Monitoring of acknowledgement button | Yes |
| **Installation type/mounting** | |
| Wall mounting/direct mounting | Yes |
| Control cabinet installation | No |
| **Supply voltage** | |
| Type of supply voltage | DC |
| Rated value (DC) | 24 V |
| permissible range, lower limit (DC) | 19.2 V |
| permissible range, upper limit (DC) | 28.8 V |
| **Input current** | |
| Current consumption (rated value) | 95 mA |
| Starting current inrush I²t | 0.16 A²·s |
| **Power** | |
| Active power input, typ. | 2.3 W |
| **Interfaces** | |
| Number of industrial Ethernet interfaces | 3 |
| Number of PROFINET interfaces | 3 |
| Connection point identification | Yes |
| Industrial Ethernet | |
| ● Industrial Ethernet status LED | 3 |
| **Protocols** | |
| PROFINET | Yes |
| IRT | Yes |
| PROFIsafe | Yes |

| | |
|---|---|
| EtherNet/IP | Yes |
| AS-Interface | No |
| EIB/KNX | No |
| **Protocols (Ethernet)** | |
| ● TCP/IP | Yes |
| ● DHCP | Yes |
| ● SNMP | Yes |
| ● DCP | Yes |
| ● LLDP | Yes |
| **Redundancy mode** | |
| Media redundancy | |
| — MRP | Yes |
| **Further protocols** | |
| ● MODBUS | Yes |
| ● other bus systems | No |
| **EMC** | |
| **Emission of radio interference acc. to EN 55 011** | |
| ● Limit class A, for use in industrial areas | No |
| ● Limit class B, for use in residential areas | No |
| **Degree and class of protection** | |
| IP degree of protection | IP65 |
| IP65 (all-round) | Yes |
| IP (at the front) | IP65 |
| **Standards, approvals, certificates** | |
| CE mark | Yes |
| cULus | Yes |
| RCM (formerly C-TICK) | Yes |
| KC approval | No; Available soon |
| Suitable for safety functions | Yes |
| **Highest safety class achievable in safety mode** | |
| ● Performance level according to ISO 13849-1 | PLe |
| ● SIL acc. to IEC 61508 | SIL 3 |
| **Use in hazardous areas** | |
| ● ATEX Zone 2 | No |
| ● ATEX Zone 22 | No |
| ● cULus Class I Zone 1 | No |
| ● cULus Class I Zone 2, Division 2 | No |
| ● FM Class I Division 2 | No |
| **Marine approval** | |
| ● Germanischer Lloyd (GL) | Yes |
| ● American Bureau of Shipping (ABS) | Yes |
| ● Bureau Veritas (BV) | No; Available soon |
| ● Det Norske Veritas (DNV) | Yes |
| ● Korean Register of Shipping (KRS) | No |
| ● Lloyds Register of Shipping (LRS) | Yes |
| ● Nippon Kaiji Kyokai (Class NK) | Yes |
| ● Polski Rejestr Statkow (PRS) | No |
| ● Chinese Classification Society (CCS) | No |
| **Ambient conditions** | |
| **Ambient temperature during operation** | |
| ● min. | 0 °C |
| ● max. | 55 °C |
| **Relative humidity** | |
| ● Operation, max. | 90 % |
| **configuration / header** | |
| **Configuration software** | |
| ● STEP 7 Professional (TIA Portal) | No |
| ● WinCC Comfort (TIA Portal) | Yes; Optional |
| ● WinCC Advanced (TIA Portal) | Yes; Optional |
| ● WinCC Professional (TIA Portal) | Yes; Optional |

| Mechanics/material | |
|---|---|
| Enclosure material (front) | |
| ● Plastic | Yes |
| ● Aluminum | No |
| ● Stainless steel | No |
| **Dimensions** | |
| Width of the housing front | 230 mm |
| Height of housing front | 145 mm |
| Depth of housing | 76 mm |
| **Weights** | |
| Weight (without packaging) | 0.72 kg |
| Weight (with packaging) | 0.8 kg |
| **Other** | |
| Usable in the following products | |
| ● Product 1 | 6AV2125-* |

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